

Thursday Learning Hour – Graph ML

Introduction to Graph Theory and Basics of Graph ML



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I went to a party with my wife. Four other couples were there in the party. Each person shook the hands of a person they didn't know. Then, I went to the centre stage and said

" On a chit of paper write the number of persons you shook hands with". (Cleverly, I did not participate)

On scrutiny, I discovered that no two answer were same. All numbers from 0 to 8 were there.

Assume that all of them gave their correct answer.

Help me out to find: How many people my wife didn't know, of course, without her knowing about by spy work

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Which is more important?

(a) Nodes

(b) Edges

(c) The entire graph

(d) Sub- graphs



Seven Bridges of Königsberg







Utility problem





Four Colour Theorem





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Traveling Salesman problem





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Which is more important?

(a) Nodes

(b) Edges

(c) The entire graph

(d) Sub- graphs



How to solve it?



In how many ways can 6 letters be posted in 4 letter boxes.

(a) 6X4(b) P_4^6 (c) C_4^6 (d) 6!X4!(e) 6^4 (f) 4^6



Imagine the situation







Which is more important





Representation





Thank you